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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/006,369	12/10/2001	Brian Gregory Chapman	P 0290400 D1030-CON2	2376
7590 09/02/2003				9
Intellectual Property Group of Pillsbury Winthrop LLP 1600 Tysons Boulevard			EXAMINER	
			LUK, EMMANUEL S	
McLean, VA 22102			ART UNIT	PAPER NUMBER
			1722	
			DATE MAILED: 09/02/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/006,369	CHAPMAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Emmanuel S. Luk	1722				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days a reply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 13 J	Responsive to communication(s) filed on <u>13 January 2003</u> .					
2a) This action is FINAL . 2b) ⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims 4) Claim(s) 22 51 in/ore pending in the application	· •					
	Claim(s) 23-51 is/are pending in the application.					
4a) Of the above claim(s) <u>39-51</u> is/are withdrawn from consideration. □ Claim(s) is/are allowed.						
6)⊠ Claim(s) is/are allowed.						
7) Claim(s) <u>25-56</u> is/are rejected.						
8) Claim(s) are subject to restriction and/or	election requirement					
Application Papers	oloollon requirement.					
9) The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) accep	ted or b)⊡ objected to by the Exar	miner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in rep	ly to this Office action.					
12) The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priori application from the International Bur * See the attached detailed Office action for a list of	eau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provents 15) Acknowledgment is made of a claim for domestic	* *					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 8.		(PTO-413) Paper No(s) Patent Application (PTO-152)				
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DETAILED ACTION

Election/Restrictions

The inventions are distinct, each from the other because of the following reasons:

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 23-38, drawn to a solid imaging apparatus, classified in class 425, subclass 174.4.
 - II. Claims 39-51, drawn to a solid imaging process, classified in class 264, subclass 401.
- 2. Inventions II and I are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus can be used to practice another and materially different process such as producing articles having only one layer instead of multiple layers.
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. During a telephone conversation with Paul Sharer on July 24, 2003 a provisional election was made with traverse to prosecute the invention of Group I, claims 23-38. Affirmation of this election must be made by applicant in replying to this Office action.

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Claims 39-51 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

7. Claims 23-32 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-12 of U.S. Patent No. 5,626,919. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claimed structure have the same features.

The U.S. Patent having:

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In claims 1 and 2, the vessel, movable platform, dispenser with opening and the dispenser both receive and deposit the composition, and imaging means (radiation source) is similar to current application claims 23, 25, 26 and 28.

In claim 3, the claimed slot is the same as current application claim 24.

In claim 5, the plurality of parallel plates is the same as the pair plates in current application claim 27.

In claim 6, the two plates that are pivotally connected are the same as in current application claims 31 and 32.

In claim 11, the claimed blade is the same as in current application claim 29.

In claim 12, the claimed slot is the same as in the current application claim 30.

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

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- 10. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 11. Claims 33 and 36-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawton in view of Hull.

Lawton teaches the claimed apparatus having a radiation source (10), deflector (20,22), a controller to connected to the deflector (34), a vessel (44), a platform (41) and platform support (42) for moving the platform, and a dispenser (43) that forms layers on the platform. The dispenser is a layer forming means such as a doctor knife.

Lawton fails to teach a dispenser support and the dispenser adapted to lift material from the vessel.

It would have been obvious to one of ordinary skill in the art to recognize that the layer forming means with a doctor knife will have to be moved across the surface of the material in the vat in order to perform the task of layer forming. Therefore, a dispenser support would have been provided to move the dispenser.

Hull teaches the dispensing of material from ink jet dispensers to form the layer for photoforming. Hull does not discuss the source of the material whether it is from the

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vessel or elsewhere. It would have been obvious to one of ordinary skill in the art to recognize that material can be taken from the vessel for dispensing a layer, thus the material is 'lifted' from the vessel.

It would have been obvious to one of ordinary skill in the art to modify Lawton with a dispenser as taught by Hull because it allows for controlled layering of the material.

12. Claims 32, 34 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawton in view of Hull as applied to claims 33 and 36-38 above, and further in view of Mellor et al.

Lawton fails to teach a pair of plates.

Mellor teaches the use of a pair of plates (Fig. 1) that can hold material (14) between as it is dispensed into a pool (20). The idea of using a pair of plates (6,12) for material dispensing is not new as seen from Mellor and it would have been obvious to one of ordinary skill in the art to modify Lawton with a pair of plates as taught by Mellor for dispensing material.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hug et al.

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14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel S. Luk whose telephone number is (703) 305-1558. The examiner can normally be reached on Monday through Friday 8 to 4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on (703) 308-0457. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

E.L.

W. L. WALKER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700